

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/591,442
Source: JFCWP
Date Processed by STIC: 9/18/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 101591, 442

CRF Edit Date: 9/18/06
Edited by: KL

_____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

_____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: / invalid beginning/end-of-file text ; ____ page numbers
/

_____ Inserted mandatory headings/numeric identifiers, specifically:

_____ Moved responses to same line as heading/numeric identifier, specifically:

_____ Other:



IFWP

RAW SEQUENCE LISTING DATE: 09/18/2006
 PATENT APPLICATION: US/10/591,442 TIME: 16:19:51

Input Set : A:\pto.kd.txt
 Output Set: N:\CRF4\09182006\J591442.raw

```

3 <110> APPLICANT: Leshkowitz, Dena
5 <120> TITLE OF INVENTION: QUANTIFYING AND PROFILING ANTIBODY AND T CELL
RECEPTOR GENE
6   EXPRESSION
8 <130> FILE REFERENCE: 32488
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/591,442
C--> 10 <141> CURRENT FILING DATE: 2006-09-01
10 <160> NUMBER OF SEQ ID NOS: 203
12 <170> SOFTWARE: PatentIn version 3.3
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 21
16 <212> TYPE: DNA
17 <213> ORGANISM: Artificial sequence
19 <220> FEATURE:
20 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
22 <400> SEQUENCE: 1
23 atggactgsa cctggagvrt c                                21
26 <210> SEQ ID NO: 2
27 <211> LENGTH: 21
28 <212> TYPE: DNA
29 <213> ORGANISM: Artificial sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
34 <400> SEQUENCE: 2
35 atggactgga tttggagat c                                21
38 <210> SEQ ID NO: 3
39 <211> LENGTH: 20
40 <212> TYPE: DNA
41 <213> ORGANISM: Artificial sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
46 <400> SEQUENCE: 3
47 atggacacac tttgctmcac                                20
50 <210> SEQ ID NO: 4
51 <211> LENGTH: 19
52 <212> TYPE: DNA
53 <213> ORGANISM: Artificial sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
58 <400> SEQUENCE: 4
59 gctgggtttt cctygttgy                                19
62 <210> SEQ ID NO: 5
63 <211> LENGTH: 18
64 <212> TYPE: DNA

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/591,442

DATE: 09/18/2006
TIME: 16:19:51

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\09182006\J591442.raw

```

65 <213> ORGANISM: Artificial sequence
67 <220> FEATURE:
68 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
70 <400> SEQUENCE: 5
71 ctgagctggm ttttyctt 18
74 <210> SEQ ID NO: 6
75 <211> LENGTH: 18
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
82 <400> SEQUENCE: 6
83 ctgggtggcrg ctcggcaga 18
86 <210> SEQ ID NO: 7
87 <211> LENGTH: 21
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
94 <400> SEQUENCE: 7
95 gctcagctcc tggggctcct g 21
98 <210> SEQ ID NO: 8
99 <211> LENGTH: 21
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
106 <400> SEQUENCE: 8
107 ctggggctgc taatgctctg g 21
110 <210> SEQ ID NO: 9
111 <211> LENGTH: 21
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
118 <400> SEQUENCE: 9
119 ttcttcctgc tactctggct c 21
122 <210> SEQ ID NO: 10
123 <211> LENGTH: 21
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
130 <400> SEQUENCE: 10
131 cagaccagg tcttcatttc t 21
134 <210> SEQ ID NO: 11
135 <211> LENGTH: 24
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial sequence

```

RAW SEQUENCE LISTING DATE: 09/18/2006
 PATENT APPLICATION: US/10/591,442 TIME: 16:19:51

Input Set : A:\pto.kd.txt
 Output Set: N:\CRF4\09182006\J591442.raw

```

139 <220> FEATURE:
140 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
142 <400> SEQUENCE: 11
143 tttcaactgc tcatacgatg gcgg 24
146 <210> SEQ ID NO: 12
147 <211> LENGTH: 17
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
154 <400> SEQUENCE: 12
155 ccatggactg gacctgg 17
158 <210> SEQ ID NO: 13
159 <211> LENGTH: 20
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
166 <400> SEQUENCE: 13
167 atgtctgtct ctttcctcat 20
170 <210> SEQ ID NO: 14
171 <211> LENGTH: 20
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
178 <400> SEQUENCE: 14
179 atgaaacacc tgtggttctt 20
182 <210> SEQ ID NO: 15
183 <211> LENGTH: 20
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
190 <400> SEQUENCE: 15
191 ccatggagtt kgggctgagc 20
194 <210> SEQ ID NO: 16
195 <211> LENGTH: 20
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
202 <400> SEQUENCE: 16
203 atggggtaa ccgcattct 20
206 <210> SEQ ID NO: 17
207 <211> LENGTH: 22
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial sequence
211 <220> FEATURE:

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/591,442

DATE: 09/18/2006
TIME: 16:19:51

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\09182006\J591442.raw

```

212 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
214 <400> SEQUENCE: 17
215 ccatggacac actttgtcc ac 22
218 <210> SEQ ID NO: 18
219 <211> LENGTH: 20
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
226 <400> SEQUENCE: 18
227 agacgagggg gaaaagggtt 20
230 <210> SEQ ID NO: 19
231 <211> LENGTH: 12
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
238 <400> SEQUENCE: 19
239 cagttcagc tg 12
242 <210> SEQ ID NO: 20
243 <211> LENGTH: 12
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
250 <400> SEQUENCE: 20
251 gagttcagc tg 12
254 <210> SEQ ID NO: 21
255 <211> LENGTH: 12
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
262 <400> SEQUENCE: 21
263 aagttcagc tg 12
266 <210> SEQ ID NO: 22
267 <211> LENGTH: 12
268 <212> TYPE: DNA
269 <213> ORGANISM: Artificial sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
274 <400> SEQUENCE: 22
275 tagttcagc tg 12
278 <210> SEQ ID NO: 23
279 <211> LENGTH: 12
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Single strand DNA oligonucleotide

```

RAW SEQUENCE LISTING DATE: 09/18/2006
PATENT APPLICATION: US/10/591,442 TIME: 16:19:51

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\09182006\J591442.raw

286 <400> SEQUENCE: 23
287 ccggttcagc tg 12
290 <210> SEQ ID NO: 24
291 <211> LENGTH: 12
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
298 <400> SEQUENCE: 24
299 ccggttcagc tg 12
302 <210> SEQ ID NO: 25
303 <211> LENGTH: 12
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
310 <400> SEQUENCE: 25
311 ctggttcagc tg 12
314 <210> SEQ ID NO: 26
315 <211> LENGTH: 12
316 <212> TYPE: DNA
317 <213> ORGANISM: Artificial sequence
319 <220> FEATURE:
320 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
322 <400> SEQUENCE: 26
323 cacgttcagc tg 12
326 <210> SEQ ID NO: 27
327 <211> LENGTH: 12
328 <212> TYPE: DNA
329 <213> ORGANISM: Artificial sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
334 <400> SEQUENCE: 27
335 caagttcagc tg 12
338 <210> SEQ ID NO: 28
339 <211> LENGTH: 12
340 <212> TYPE: DNA
341 <213> ORGANISM: Artificial sequence
343 <220> FEATURE:
344 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
346 <400> SEQUENCE: 28
347 catgttcagc tg 12
350 <210> SEQ ID NO: 29
351 <211> LENGTH: 12
352 <212> TYPE: DNA
353 <213> ORGANISM: Artificial sequence
355 <220> FEATURE:
356 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
358 <400> SEQUENCE: 29

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/18/2006
PATENT APPLICATION: US/10/591,442 TIME: 16:19:52

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\09182006\J591442.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:59; N Pos. 45,46,47,48,49,50
Seq#:114; N Pos. 1,7,10
Seq#:173; N Pos. 6,9
Seq#:199; N Pos. 6,12
Seq#:200; N Pos. 5,11
Seq#:201; N Pos. 4,10
Seq#:202; N Pos. 3,9,12
Seq#:203; N Pos. 2,8,11

VERIFICATION SUMMARY DATE: 09/18/2006
PATENT APPLICATION: US/10/591,442 TIME: 16:19:52

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\09182006\J591442.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0
L:1403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:0
L:2122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173 after pos.:0
L:2459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:199 after pos.:0
L:2482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:200 after pos.:0
L:2505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:201 after pos.:0
L:2533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:202 after pos.:0
L:2561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:203 after pos.:0

Raw Sequence Listing before editing (for reference only)



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/591,442

DATE: 09/13/2006

TIME: 10:46:05

Input Set : A:\32488 SEQUENCE LISTING.txt

Output Set: N:\CRF4\09132006\J591442.raw

3 <110> APPLICANT: Leshkowitz, Dena
 5 <120> TITLE OF INVENTION: QUANTIFYING AND PROFILING ANTIBODY AND T CELL RECEPTOR GENE
 6 EXPRESSION
 8 <130> FILE REFERENCE: 32488
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/591,442
 C--> 10 <141> CURRENT FILING DATE: 2006-09-01
 10 <160> NUMBER OF SEQ ID NOS: 203
 12 <170> SOFTWARE: PatentIn version 3.3

Does Not Comply
 Corrected Diskette Needed

(Pg. 1)

ERRORED SEQUENCES

2536 <210> SEQ ID NO: 203
 2537 <211> LENGTH: 12
 2538 <212> TYPE: DNA
 2539 <213> ORGANISM: Artificial sequence
 2541 <220> FEATURE:
 2542 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
 2545 <220> FEATURE:
 2546 <221> NAME/KEY: misc_feature
 2547 <222> LOCATION: (2)..(2)
 2548 <223> OTHER INFORMATION: n is a, c, g, or t
 2550 <220> FEATURE:
 2551 <221> NAME/KEY: misc_feature
 2552 <222> LOCATION: (8)..(8)
 2553 <223> OTHER INFORMATION: n is a, c, g, or t
 2555 <220> FEATURE:
 2556 <221> NAME/KEY: misc_feature
 2557 <222> LOCATION: (11)..(11)
 2558 <223> OTHER INFORMATION: n is a, c, g, or t
 2560 <400> SEQUENCE: 203
 W--> 2561 tncarytnngt ng
 E--> 2574 4

12

deleted

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/591,442

DATE: 09/13/2006

TIME: 10:46:07

Input Set : A:\32488 SEQUENCE LISTING.txt
Output Set: N:\CRF4\09132006\J591442.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0
L:1403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:0
L:2122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173 after pos.:0
L:2459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:199 after pos.:0
L:2482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:200 after pos.:0
L:2505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:201 after pos.:0
L:2533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:202 after pos.:0
L:2561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:203 after pos.:0
L:2574 M:254 E: No. of Bases conflict, this line has no nucleotides.

[Handwritten mark: a short horizontal line with a vertical tick at the left end and a curved flourish at the right end.]